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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Choi et al.

App. No.: 10/785,248 GPAU: 1756

Filing Date: 24-Feb-2004 Examiner: Christopher G. Young

Dkt. No.: PA132-08D09 Conf. No.: 8897

For: METHOD TO CONTROL THE RELATIVE POSITION BETWEEN A BODY AND  
A SUBSTRATE

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
 Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

FEES DUE

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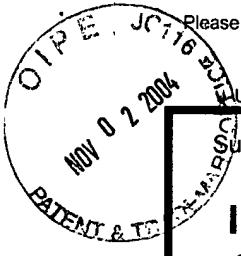
- before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
- during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
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- Applicant(s) does not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

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Signed:	<u>Katrina Prati</u>
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Date:	<u>10-29-04</u>

Respectfully Submitted,



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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	8	Attorney Docket Number	PA132-08D09
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### Complete if Known

Application Number	10/785,248
Filing Date	02/24/2004
First Named Inventor	Choi et al.
Group Art Unit	1756
Examiner Name	Young, Christopher G.

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
A1	4,070,116			Frosch et al.	01-24-1978	
A2	4,600,309			Fay	07-15-1986	
A3	4,848,911			Uchida et al.	07-18-1989	
A4	5,074,667			Miyatake	12-24-1991	
A5	5,148,036			Matsugu et al.	09-15-1992	
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A7	5,151,754			Ishibashi et al.	09-29-1992	
A8	5,179,863			Uchida et al.	01-19-1993	
A9	5,376,810			Hoenk et al.	12-27-1994	
A10	5,424,549			Feldman	06-13-1995	
A11	5,670,415			Rust	09-23-1997	
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A14	5,948,219			Rohner	09-07-1999	
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A16	6,150,680			Eastman et al.	11-21-2000	
A17	6,326,627	B1		Putvinski et al.	12-04-2001	
A18	2002/0132482	A1		Chou	09-19-2002	
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A20	6,482,742	B1		Chou	11-19-2002	
A21	6,534,418	B1		Plat et al.	03-18-2003	
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A33	5,439,766			Day et al.	08-08-1995	
A34	5,431,777			Austin et al.	07-11-1995	
Examiner Signature				Date Considered		

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Sheet

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		Number	Kind Code <sup>2</sup> (if known)			
	A35	5,422,295		Choi et al.	06-06-1995	
	A36	5,421,981		Leader et al.	06-06-1995	
	A37	5,417,802		Obeng	05-23-1995	
	A38	5,380,474		Rye et al.	01-10-1995	
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	A40	5,330,881		Sidman et al.	07-19-1994	
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	A42	5,318,870		Hartney	06-07-1994	
	A43	5,244,818		Jokerst et al.	09-14-1993	
	A44	5,242,711		DeNatale et al.	09-07-1993	
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	A53	6,776,094	B1	Whitesides et al.	08-17-2004	
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	A66	4,931,351		McColgin et al.	06-05-1990	
	A67	4,976,818		Hashimoto et al.	12-11-1990	
	A68	4,980,316		Huebner	12-25-1990	
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Sheet

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**Complete if Known**

Application Number	10/785,248
Filing Date	02/24/2004
First Named Inventor	Choi et al.
Group Art Unit	1756
Examiner Name	Young, Christopher G.

Attorney Docket Number PA132-08D09

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		Number	Kind Code <sup>2</sup> (if known)			
	A69	4,999,280		Hiraoka	03-12-1991	
	A70	5,071,694		Uekita et al.	12-10-1991	
	A71	5,169,494		Hashimoto et al.	12-08-1992	
	A72	5,173,393		Sezi et al.	12-22-1992	
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	A74	5,234,793		Sebald et al.	08-10-1993	
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	A76	5,527,662		Hashimoto et al.	06-18-1996	
	A77	5,654,238		Cronin et al.	08-05-1997	
	A78	5,700,626		Lee et al.	12-23-1997	
	A79	5,736,424		Prybyla et al.	04-07-1998	
	A80	5,895,263		Carter et al.	04-20-1999	
	A81	5,907,782		Wu	05-25-1999	
	A82	5,926,690		Toprac et al.	07-20-1999	
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	A84	6,033,977		Gutsche et al.	03-07-2000	
	A85	6,096,655		Lee et al.	08-01-2000	
	A86	6,150,231		Muller et al.	11-21-2000	
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	A90	6,383,928	B1	Eissa	05-07-2002	
	A91	6,387,783	B1	Furukawa et al.	05-14-2002	
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	A93	6,391,798	B1	DeFelice et al.	05-21-2002	
	A94	6,455,411	B1	Jiang et al.	09-24-2002	
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	A96	6,514,672	B2	Young et al.	02-04-2003	
	A97	6,561,706	B2	Singh et al.	05-13-2003	
	A98	6,565,928	B2	Sakamoto et al.	05-20-2003	
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	A101	6,632,742	B2	Yang et al.	10-14-2003	
	A102	6,635,581	B2	Wong	10-21-2003	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Application Number</b>	10/785,248
				<b>Filing Date</b>	02/24/2004
				<b>First Named Inventor</b>	Choi et al.
				<b>Group Art Unit</b>	1756
				<b>Examiner Name</b>	Young, Christopher G.
Sheet	4	of	8	<b>Attorney Docket Number</b>	
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				Filing Date	02/24/2004
				First Named Inventor	Choi et al.
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				Examiner Name	Young, Christopher G.
Sheet	5	of	8	Attorney Docket Number	

## FOREIGN PATENT DOCUMENTS

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				<b>Filing Date</b>	02/24/2004
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				<b>Examiner Name</b>	Young, Christopher G.
Sheet	6	of	8	Attorney Docket Number	PA132-08D09

<b>OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS</b>		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	A122	Abstract of Japanese Patent 63-138730
	A123	Abstract of Japanese Patent 55-88332
	A124	Abstract of Japanese Patent 57-7931
	A125	Abstract of Japanese Patent 02-92603.
	A126	Translation of Japanese Patent 02-92603.
	A127	Abstract of Japanese Patent 02-24848.
	A128	Translation of Japanese Patent 02-24848.
	A129	HEIDARI et al., "Nanoimprint Lithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/
	A130	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004
	A131	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004
	A132	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004

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10/785,248

**Filing Date**

02/24/2004

**First Named Inventor**

Choi et al.

**Group Art Unit**

1756

**Examiner Name**

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**Attorney Docket Number**

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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A133	HU et al., "Fluorescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9;"Macromolecules" 1998, vol. 31, no.13 , pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
	A134	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online][Retrieved 9/23/04 from URI: <a href="http://www.zyvex.com/nanotech/feynman.html">http://www.zyvex.com/nanotech/feynman.html</a> ]	
	A135	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What is UV Curing?", 45 pp [online][Retrieved 9/24/04 from URL: <a href="http://www.cibasc.com/image.asp?id=4040">http://www.cibasc.com/image.asp?id=4040</a> ]	
	A136	Communication Relating to the Results of the Partial International Search; International Appl. No. PCT/US2002/015551.	
	A137	Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A138	Abstract of Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A139	Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A140	Abstract of Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A141	Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
	A142	Abstract of Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
	A143	Roos et al., "Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing," October 2001, pp. 427-435, vol. 4343.	

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/785,248
				Filing Date	02/24/2004
				First Named Inventor	Choi et al.
				Group Art Unit	1756
				Examiner Name	Young, Christopher G.
				Attorney Docket Number	PA132-08D09
Sheet	8	of	8		

#### **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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